7:30 AM	TUESDAY APRIL 12, 2	2005 - REGISTRATION
8:15 AM	Welcome & Keynote 1: Bill Woessner, University of Montana — Viruses & Pharmaceuticals in Groundwater	
9:30 AM	Break	
9:45 AM	1A: GROUNDWATER-SURFACE WATER INTERACTIONS: CHEMISTRY, MODELS, AND REGULATIONS	1B: AQUIFER STORAGE AND RECOVERY
SESSION 1	Logistic Regression Used to Relate Ground Water Quality to Man-Made and Natural Causes: Sandy K. Williamson, U.S. Geological Survey Development and Applications of Groundwater Flow Model for the Dungeness River Area, Sequim, WA: Thomas C. Goodlin, Tetra Tech EC, Inc. Using Numerical Models to Assess Storm-Water Infiltration Basins in Shallow Groundwater Settings: Dawn M. Chapel, Pacific Groundwater Group Hydrogeology and Critical Aquifer Recharge Areas: Laurie Morgan, WA Department of Ecology	Groundwater Storage Assessment and Beneficial Use of Class A Reclaimed Water in WRIA 14: Steve Nelson, SLR International Corporation City of Walla Walla Aquifer Storage and Recovery Development: Michael P. Klisch, Golder Associates Inc. Evaluating ASR Using Columbia River Water, Kennewick, Washington: Steve J. Germiat, Aspect Consulting, LLC ASR and Buildout Applications of the Dungeness Groundwater Flow Model, Sequim, WA: Ann C. Soule, Clallam County Environmental Health Services
11:15 AM	Poster Session 1 - Groundwater Contamination and Remediation	
12:00 PM	LUNCH (provided) - Phil Mote, University of Washington, State Climatologist — Pacific Northwest Climate: Past, Present & Future	
1:30 PM	2A: POINT SOURCE CONTAMINANTS IN THE SUBSURFACE	2B: CHANGING CLIMATE, RETREATING GLACIERS, AND GROUNDWATER AVAILABILITY
SESSION 2	Investigation of Casing Corrosion in Wells from the Hanford Nuclear Reservation, Richland, Washington: Christopher F. Brown, Pacific Northwest National Laboratory Contaminant Ratios as a Key to Contaminant Sources and Histories in the Hanford 200 West Area: Floyd N. Hodges, WA Department of Ecology Field Measurement of NAPL Volumes in the Vadose Zone by Partitioning Interwell Tracer Testing: Richard E. Jackson, INTERA Inc. A Refined Conceptual Model for Dense Non-Aqueous Phase Liquids (DNAPL) in the Subsurface at the 200 West Area, Department of Energy Hanford Site: Dawn Kaback, Concurrent Technologies Corporation	On the Continuing Retreat of South Cascade Glacier, Washington: Edward G. Josberger, U.S. Geological Survey Implications of Global Warming on Water Availability: Chris V. Pitre, Golder Associates Inc. Development of the Abbotsford-Sumas Aquifer Groundwater Flow Model for a Climate Change Impacts Study: Diana Allen, Department of Earth Sciences, Simon Fraser University Glacier Shrinkage and Hydrological Effects: Diminishing Returns: Andrew G. Fountain, Departments of Geology and Geography, Portland State University
3:00 PM	Bre	eak T
3:30 PM	3A: REMEDIATION - I	3B: NON-POINT SOURCE CONTAMINATION
SESSION 3	Pilot Testing of Permanganate Injection at Low Concentration to Restore a Solvent-Impacted Drinking Water Aquifer: Dave Heffner, Aspect Consulting, LLC Use of Enhanced In-situ Reductive Dechlorination to Replace Pump and Treat at an Aerospace Manufacturing Facility in Tukwilla, Washington: Clinton L. Jacob, Landau Associates A Tale of Two Barrier Walls: A Performance Comparison of Groundwater Containment Walls near Seattle, Washington: John D. Long, Geomatrix Consultants, Inc. Steam-Enhanced Remediation of a Former Wood-Treating Facility at the Port of Ridgefield Lake River Industrial Site; Effects of Hydrostratigraphy on the Distribution of Heat and Mass Removal of Contaminants: Eric Roth, Maul Foster & Alongi, Inc. Laboratory and Field Studies of Cr-Bioimmobilization in Groundwater at Hanford: Terry C. Hazen, Lawrence Berkeley National Laboratory	Vadose Zone Nitrate Contamination, Malheur County, Oregon: Paul F. Pedone, Natural Resources Conservation Service, USDA Pesticides in Surface Waters of the Pacific Northwest-Overview of USGS Regional Findings: Sandy K. Williamson, U.S. Geological Survey Ground Water Nitrate Distributions and Denitrification in a Portion of the Abbotsford-Sumas Aquifer, Northwest Washington: Robert Mitchell, Western Washington University, Geology Department Trace Metals Levels in Puget Sound Glacial Materials: Lori J. Herman, Aspect Consulting, LLC Does Bacterial and Nitrate Contamination in Streams in Whatcom County, Washington, Come from Ground Water?: Stephen E. Cox, U.S. Geological Survey
5:20 PM	Break - Visit the Exhibitors	
6 - 9 PM	DINNER (provided) and Cash Bar at the Washington State History Museum	
7:30 AM	WEDNESDAY APRIL 13, 2005 - REGISTRATION	
8:00 AM	Keynote 2: Ileana Rhodes, Shell Global Solutions — Overview of Petroleum Hydrocarbon Chemistry and Environmental Forensics	
9:00 AM	Bre	ak
9:30 AM	4A: DATA ANALYSIS AND EXCHANGE	4B: EFFECTS OF HETEROGENEITY
SESSION 4	Pacific Northwest Water Quality Data Exchange: Curtis Cude, Business Systems Development, Oregon Dept. of Environmental Quality An International Perspective on Maintaining Optimum Well Performance: Jim S. Bailey, Golder Associates Inc. Trends in Uranium Plume Parameters, 300 Area, Hanford Site, Washington: Christopher J. Murray, Pacific Northwest National Laboratory Groundwater Evaluation Methodology and Development of Concentration Limits for Landfills near Surface Water Bodies: Bryan Graham, Tetra Tech EC, Inc.	Groundwater Flow Direction Anomaly Near Seattle's Union Station After the Nisqually Earthquake: Brian Butler, Landau and Associates Layered Heterogeneity and its Effect on Technetium-99 Behavior in Variably Saturated Sediments: A Case Study of Hanford's 216-B-26 Trench: Anderson L. Ward, Hydrology Technical Group, Pacific Northwest Laboratories Effect of Geology and Groundwater-Surface Water Interaction on Groundwater Flow and a Dissolved Chlorinated Solvent Plume in the Esperance Sand, Everett, Washington: Mark P. Molinari, URS Corporation Effective Leak Detection — A Needed Component During Retrieval of High-Level Mixed Waste from Single Shell Tanks at the Hanford Site: Joseph A. Caggiano, WA Department of Ecology
11:00 AM	Poster Session 2 — Geohydrology and Watersheds	
12:00 PM	LUNCH (provided)
1:30 PM	5A: CONTAMINANT FATE AND TRANSPORT STUDIES	5B: HYDROSTRATIGRAPHY
SESSION 5	Ground Water Discharges of High pH and Chlorinated Hydrocarbons into the Hylebos Waterway, Tacoma, Washington: Roy Jensen, Weston Solutions, Inc. The Impact of Stratigraphy and Geochemistry on Contaminant Fate Transport at the Boomsnub/Airco Superfund Site, Hazel Dell, Washington: Glenn A. Hayman, EA Engineering, Science and Technology, Inc. Stable Isotopes of Strontium as Tracers of Seawater Intrusion and TCE: Case Studies from the Dominguez Gap (CA) and a Fractured Limestone Terrane (MO): Richard W. Hurst, Hurst & Associates, Inc. Trace-Element Concentrations and Occurrence of Metallurgical Slag Particles in Bed Sediment Cores from Lake Roosevelt, Washington: Stephen E. Cox, U.S. Geological Survey	Evaluation of the Nature of the Boundary between the Northern and Central Quito Aquifers, Quito, Ecuador: Mark P. Ausburn, KOMEX Investigating Vertical Contaminant Distribution Using Innovative Methods: Susan M. Narbutovskih, Pacific Northwest National Laboratory Identification of Leakage Effects During Site Characterization Investigations at the Potential Black Rock Reservoir Site: Frank A. Spane, Pacific Northwest National Laboratory Three-Dimensional Geologic Model for the Washington Portion of the Spokane Valley-Rathdrum Prairie Aquifer: James L. Poelstra, WA Department of Natural Resources, Geology & Earth Resources Division
3:00 PM	Bre	ak
3:30 PM SESSION 6	Oregon's Water Woes: Past and Present: William N. Orr, University of Oregon Klamath Basin Rangeland Trust and the Irrigation Hydrology of Wood River Valley: Charles T. Ellingson, Pacific Ground Water Group Des Moines Creek Basin — A Holistic Restoration Approach: Zahid Khan, Des Moines Creek Basin Restoration Projects, King County Department of Natural Resources & Parks The Role of Ground-Water Hydrology in Resolving Water-Supply Issues in the Upper Klamath Basin, Oregon and California: Marshall W. Gannett, U.S. Geological Survey	Roundwater Contaminants Entering the Columbia River at the Hanford Site's 300 Area: Gregory W. Patton, Pacific Northwest National Laboratory Onth Creek Stream Flow Enhancement: Charles S. Lindsay, Associated Earth Sciences, Inc. Shallow Aquifer Response to Modifications in Columbia River Hydroelectric Management: Fred Wurster, U.S. Fish and Wildlife Service, Division of Engineering/Water Resources Hydrogeologic Framework of Eastern Jefferson County, Washington: Implications For Surface Water-Ground Water Interactions: F. William Simonds, U.S. Geological Survey Groundwater Contaminants Entering the Columbia River at the Hanford Site's 300 Area: Gregory W. Patton, Pacific Northwest National Laboratory
5:00 PM	Break Break	
5:30 - 8:30 PM	Dinner Cruise a	and Workshops
7:30 AM	THURSDAY APRIL 14,	2005 - REGISTRATION
8:00 AM	Keynote 3: Graham Fogg, UC Davis — Groundwate	er Vulnerability and the Meaning of Age Dates
9:00 AM	7A: REMEDIATION - II	7B: GROUNDWATER/SURFACE WATER - II
SESSION 7	Understanding and Treating a TCE Plume that Defies Conventional Wisdom: Thomas C. Goodlin, Tetra Tech EC, Inc. Challenges in the Remediation of Groundwater Contaminated with Sr-90 in N-Area, Hanford Site, Washington: Dibakar Goswami, WA Department of Ecology Environmental Tracer Investigation of Ground-Water Flow and TCE Migration beneath Fort Lewis, Washington: Richard S. Dinicola, U.S. Geological Survey	Thermal Profiling of Long River Reaches to Characterize Ground-Water Discharge and Preferred Salmonid Habitat: J.J. Vaccaro, U.S. Geological Survey Monitoring Groundwater Quality Along the Columbia River, Hanford Site, Washington: Robert E. Peterson, Field Hygrology and Chemistry, Pacific Northwest National Laboratory A Decade of Regulatory Process to Reach Active Remediation, The Boeing Plant 2 Chlorinated Solvent Interim Action, Seattle, Washington: Hideo Fujita, WA Department of Ecology
10:25 AM	Bre	ak
10:45 AM SESSION 8	8A: EMERGING CONTAMINANTS AND PUBLIC EXPOSURE Mercury Emissions and Lake Deposition: A Qualitative Model and its Application to Lake Whatcom, Washington: A. Paulson, U.S. Geological Survey Ground Water Investigations for Perchlorate in Washington and Oregon: Kevin Broom, Weston Solutions, Inc.	8B: GROUNDWATER MODELING Investigating Near-Stream Groundwater / Surface Water Interactions Using MODFLOW-WHAT: R. Brad Thoms, Oregon Graduate Institute, Department of Environmental and Biomolecular Systems Upland Basin Groundwater Models for Predicting Septic System Impacts and Land Use Planning: Gary E. Andres, Land and Water Consulting, Inc. Hydrogeology Database Development and Ground-Water Modeling for the Palouse Basin Aquifer (PBA):
	Volatile Organic Compounds in Soil Gas above a Ground Water Contaminant Plume at Fort Lewis, Washington: Gregory W. Patton, Pacific Northwest National Laboratory	Joan Q. Wu, Washington State University, Department of Biological Systems Engineering
11:45 AM	Washington: Gregory W. Patton, Pacific Northwest National Laboratory	